

AMENDMENTIn the Claims:

Please cancel claims 4, 6, 7, 12-32 and 35-42 without prejudice or disclaimer.

Claims 1, 9, 11 and 33 are hereby amended.

Claims 43-58 have been added.

Please amend claim 1 as follows:

1. (once amended) An antimicrobial composition, comprising:
pyrithione or a pyrithione complex; and
a zinc or copper or silver source selected from the group consisting of zinc or
copper or silver salts, zinc or copper or silver oxides, zinc or copper or
silver hydroxides, zinc or copper or silver metals, zinc or copper or silver
complexes, and combinations thereof;
wherein the weight ratio of said zinc or copper or silver source to said pyrithione or
said pyrithione complex is in the range from about 1:100 to about 1:1, and
wherein said antimicrobial composition has an enhanced biocidal effect
against microorganisms selected from the group consisting of free-living
microorganisms, parasitic microorganisms, adherent microorganisms,
biofilms, and combinations thereof.

Please amend claim 9 as follows:

9. (once amended) The antimicrobial composition of claim 8, wherein said
complexing agent is selected from the group consisting of zeolites, titania, carbon,
azoles, ethylenediaminetetraacetic acid, ethylene-bis-(oxyethylenenitrilo)-tetra-
acetic acid, crown ethers, cryptates, cyclodextrin, and combinations thereof.

Please amend claim 11 as follows:

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11. (once amended) The antimicrobial composition of claim 1, wherein said weight ratio of said zinc or copper or silver source to said pyrrhione or said pyrrhione complex is in the range of from about 1:100 to about 1:10.

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33.

Please amend claim 33 as follows:

- (once amended) An antimicrobial composition for treating microorganisms selected from the group consisting of free-living microorganisms, parasitic microorganisms, adherent microorganisms, biofilms, and combinations thereof, comprising:
- a salt of pyrrhione; and
 - a water soluble zinc metal salt;
- wherein the weight ratio of said water-soluble zinc metal salt to said salt of pyrrhione is in the range from about 1:100 to about 1:1, and wherein said antimicrobial composition has an enhanced biocidal effect against microorganisms selected from the group consisting of free-living microorganisms, parasitic microorganisms, adherent microorganisms, biofilms, and combinations thereof.

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Please add new claims 43-58 as follows:

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43.

- An antimicrobial composition, comprising:
- pyrrhione or a pyrrhione complex; and
 - zinc from a zinc source selected from the group consisting of zinc salts, zinc oxides, zinc hydroxides, and combinations thereof;
- wherein the weight ratio of said zinc source to said pyrrhione or said pyrrhione complex is in the range from 50:1 to 1:50, and wherein said antimicrobial composition has an enhanced biocidal effect against microorganisms selected from the group consisting of bacteria, fungi, and combinations thereof.

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44.

- An antimicrobial composition, comprising:
- pyrrhione or a pyrrhione complex; and
 - a zinc or copper or silver source selected from the group consisting of zinc or copper or silver salts, zinc or copper or silver oxides, zinc or copper or

silver hydroxides, zinc or copper or silver metals, zinc or copper or silver complexes, and combinations thereof;

wherein the weight ratio of said zinc or copper or silver source to said pyrithione or said pyrithione complex is in the range from about 1:100 to about 1:10, and wherein said antimicrobial composition has an enhanced biocidal effect against microorganisms selected from the group consisting of free-living microorganisms, parasitic microorganisms, adherent microorganisms, biofilms, and combinations thereof.

45. An antimicrobial composition, comprising:
pyrithione or a pyrithione complex; and
a zinc source selected from the group consisting of zinc salts, zinc oxides, zinc hydroxides, and combinations thereof;
wherein the weight ratio of said zinc source to said pyrithione or said pyrithione complex is in from 1:100 to 1:1.
46. The antimicrobial composition of claim 45 wherein said weight ratio is from 1:100 to 1:10.
47. The antimicrobial composition of claim 1 which additionally comprises water or an organic solvent.
48. The antimicrobial composition of claim 47 wherein said organic solvent is an alkanolamine.
49. The antimicrobial composition of claim 33 which additionally comprises water or an organic solvent.
50. The antimicrobial composition of claim 49 wherein said organic solvent is an alkanolamine.
51. The antimicrobial composition of claim 43 which additionally comprises water or an organic solvent.
52. The antimicrobial composition of claim 51 wherein said organic solvent is an alkanolamine.
53. The antimicrobial composition of claim 44 which additionally comprises water